

Automatic Gear Transmission Apparatus

Abstract

5 An automatic gear transmission apparatus, capable of cooperating with
a conventional manual transmission gearbox to provide an automatic gear
transmission function. The automatic gear transmission apparatus
comprises: a motor, a clutch mechanism, a gear selection mechanism, a gear
transmission mechanism, and a sleeve rod. By means of the clutch
10 mechanism, output power from a single motor can be optionally transmitted
out through the gear selection mechanism or the gear transmission
mechanism. The power output by the gear selection mechanism can
linearly activate the sleeve rod to proceed a gear selection action, while the
power output by the gear transmission mechanism can rotationally activate
15 the sleeve rod to proceed a gear transmission action. Therefore, using only
a single motor can drive the sleeve rod linearly or rotationally to proceed
two actions of gear selection and gear transmission, respectively.